AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1   1.   (Previously Presented) A method of controlling communications in a wireless
2 network comprising:
3   receiving, in a wireless network controller, an indicator in a message sent over an
4 air link by a mobile station to establish a data transfer session in the wireless network; and
5   selecting one of plural types of protocol stacks in the wireless network controller
6 to use for communications over the air link between the wireless network controller and mobile
7 station based on the indicator.

1   2.   (Previously Presented) A method of controlling communications in a wireless
2 network comprising:
3   receiving, in a wireless network controller, an indicator in a message sent over an
4 air link by a mobile station to establish a data transfer session in the wireless network; and
5   selecting one of plural types of protocol stacks in the wireless network controller
6 to use for communications over the air link between the wireless network controller and mobile
7 station based on the indicator,
8   wherein selecting one of plural types of protocol stacks comprises selecting from
9 protocol stacks comprising a GERAN protocol stack.

1   3.   (Original) The method of claim 2, wherein selecting one of plural types of
2 protocol stacks comprises selecting from plural stacks comprising the GERAN protocol stack
3 and an EGPRS protocol stack.

1   4.   (Original) The method of claim 1, wherein selecting one of plural types of
2 protocol stacks comprises selecting from protocol stacks comprising an EGPRS protocol stack.

1   5.   (Previously Presented) A method of controlling communications in a wireless

2 network comprising:

3   receiving, in a wireless network controller, an indicator in a message sent by a

4 mobile station to establish a data transfer session in the wireless network; and

5   selecting one of plural types of protocol stacks to use for communications over an

6 air link between the wireless network controller and mobile station based on the indicator,

7   wherein receiving the indicator comprises receiving a Temporary Logical Link

8 Identity structure having one of plural values.

1   6.   (Original) The method of claim 5, wherein selecting one of plural types of

2 protocol stacks comprises selecting a first protocol stack if the Temporary Logical Link Identity

3 structure has a first value.

1   7.   (Original) The method of claim 6, wherein selecting one of plural types of

2 protocol stacks further comprises selecting a second protocol stack if the Temporary Logical

3 Link Identity structure has a second value.

1   8.   (Original) The method of claim 1, wherein selecting one of plural types of

2 protocol stacks comprises selecting a first protocol stack if the indicator has a first value and

3 selecting a second protocol stack if the indicator has a second value.

1   9.   (Currently Amended) A method of controlling communications in a wireless

2 network comprising:

3   receiving, in a wireless network controller, an indicator in a message sent by a

4 mobile station to establish a data transfer session in the wireless network; and

5   selecting one of plural types of protocol stacks to use for communications over an

6 air link between the wireless network controller and mobile station based on the indicator,

7   wherein receiving the indicator comprises receiving a parameter used for

8 contention resolution by the wireless network controller for distinguishing between multiple

9 mobile stations that are contending for a common resource.

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1   10.   (Original) The method of claim 9, further comprising performing contention

2   resolution using the parameter.

1   11.   (Original) The method of claim 9, wherein receiving the parameter comprises

2   receiving a Temporary Logical Link Identity.

1   12.   (Original) The method of claim 9, wherein receiving the parameter comprises

2   receiving a GERAN Contention Resolution Identity.

1   13.   (Original) The method of claim 1, wherein receiving the indicator comprises

2   receiving one of plural training sequences.

1   14.   (Previously Presented) A system comprising:

2   an interface to an air link to communicate with mobile stations; and

3   a controller adapted to perform contention resolution with a first type of mobile

4   station using a first type of indicator, the controller adapted to communicate signaling according

5   to a first wireless protocol with the first type of mobile station, and

6   the controller adapted to perform contention resolution with a second type of

7   mobile station using a second type of indicator, the controller adapted to communicate signaling

8   according to a second wireless protocol with the second type of mobile station.

1   15.   (Original) The system of claim 14, wherein the first wireless protocol comprises

2   a GERAN wireless protocol.

1   16.   (Original) The system of claim 15, wherein the second wireless protocol

2   comprises an EGPRS wireless protocol.

1   17.   (Original) The system of claim 14, wherein the first wireless protocol comprises

2   an EGPRS wireless protocol.

1   18.   (Original) The system of claim 14, wherein the first type of indicator comprises a

2   Temporary Logical Link Identity (TLLI) structure having a first value, and the second type of

3   indicator comprises a TLLI structure having a second value.

1   19.   (Previously Presented) The system of claim 18, wherein the first value indicates

2   one of a local TLLI, a foreign TLLI, and a random TLLI, and the second value indicates one of a

3   local GCRI and a random GCRI.

1   20.   (Previously Presented) An article comprising at least one storage medium

2   containing instructions that when executed cause a wireless access system to:

3   receive an indicator in a message sent by a mobile station over an air link to

4   establish a data transfer session; and

5   select one of plural protocol stacks in the wireless access system to use for

6   communications over the air link between the wireless access system and the mobile station.

1   21.   (Original) The article of claim 20, wherein the instructions when executed cause

2   the wireless access system to select one of plural protocol stacks by selecting a first protocol

3   stack in response to the indicator having a first value and selecting a second protocol stack in

4   response to the indicator having a second value.

1   22.   (Previously Presented) An article comprising at least one storage medium

2   containing instructions that when executed cause a wireless access system to:

3   receive an indicator in a message sent by a mobile station over an air link to

4   establish a data transfer session; and

5   select one of plural protocol stacks in the wireless access system to use for

6   communications over an air link between the wireless access system and the mobile station,

7   wherein the instructions when executed cause the wireless access system to select

8   one of a GERAN protocol stack and an EGPRS protocol stack.

1   23.   (Original) The article of claim 20, wherein the instructions when executed cause

2   the wireless access system to receive the indicator by receiving a Temporary Logical Link

3   Identity (TLLI) structure.

1   24.   (Previously Presented) An article comprising at least one storage medium

2   containing instructions that when executed cause a wireless access system to:

3   perform contention resolution with a first type of mobile station using a first type

4   of indicator;

5   communicate signaling according to a first wireless protocol with the first type of

6   mobile station;

7   perform contention resolution with a second type of mobile station using a second

8   type of indicator; and

9   communicate signaling according to a second wireless protocol with the second

10   type of mobile station.

1   25.   (Original) The article of claim 24, wherein the instructions when executed cause

2   the wireless access system to select one of plural types of protocol stacks based on which of the

3   first and second types of indicators is received.

1   26.   (Previously Presented) The article of claim 24, wherein performing contention

2   resolution with the first type of mobile station comprises performing contention resolution using

3   the first type of indicator to distinguish between the first type mobile station and at least another

4   mobile station, and

5   wherein performing contention resolution with the second type of mobile station

6   comprises performing contention resolution using the second type of indicator to distinguish

7   between the second type of mobile station and another mobile station.

1   27.   (Previously Presented) The method of claim 1, wherein selecting one of plural

2   types of protocol stacks in the wireless network controller comprises selecting one of plural types

3   of protocol stacks in one of a base station controller and radio network controller.

1   28.   (Previously Presented) The system of claim 14, wherein the controller performs

2   contention resolution with the first type of mobile station by distinguishing the first type of

3   mobile station from another mobile station using the first type of indicator, and

4   the controller performs contention resolution with the second type of mobile

5   station by distinguishing the second type of mobile station from another mobile station using the

6   second type of indicator.